Maintenance Instructions

Moments / Bloqx / Story Makers

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KOMPAN Playful Living

Maintenance Instructions

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Introduction

KOMPAN A/S carefully designs and manufactures its products with state-of-the-art safety features to withstand years of hard play. As the owner, you are responsible to maintain the product and the surroundings to ensure safety. To protect children's safety each product and the surrounding area must be periodically inspected and maintained to ensure safe trouble-free performance. This instruction booklet provides a checklist for scheduled inspections and maintenance on daily/weekly, monthly/seasonally and annual intervals. If your KOMPAN product is used heavily, it may require more frequent attention.

Concerning records F1487

Clause 13.3: The owner/operator shall establish and maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment area. KOMPAN's guarantees are conditional on the products being maintained in accordance with this manual.

WARNING

Failure to follow these maintenance and inspection instructions could result in unsafe conditions on and around the products, which could lead to serious physical injury.
KOMPAN cannot be responsible for any injuries or damages that result from failure to follow these instructions.

WARNING

Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls. A protective surface must be installed beneath and around all play equip-ment to reduce the likelihood of injuries due to accidental falls.
Protective surfacing under and around KOMPAN equipment should comply with the recommendations of the U.S. Consumer Product Safety Commission Guidelines[1]. After installation, the surfacing should comply with the impact performance specifications of ASTM F1292[2].
Continued and periodic maintenance is required to maintain the proper depth of protective surfacing in compliance with the U.S. Consumer Product Safety Commission
Guidelines as well as ASTM F1292 impact performance.

1. Handbook for Public Playground Safety, U.S. Consumer Product Safety Commission, Washington, DC 20207.
2. American Society for Testing and Materials: F1292, 100 Barr Harbor Dr. West, Conshocken, PA 19428.

Surfacing

ASTM F1487 Definitions used:

Clause 3.1.12 Fall height
“The vertical distance between a designated play surface* and the protective surfacing beneath it.”
For further information see KOMPAN catalogue technical information.
Clause 3.1.8 Designated play surface
“Any elevated surface for standing, walking, sitting, climbing or a flat surface greater than 2 inch wide having less than 30 degree angle from horizontal.”
Poorly maintained surfacing can lead to serious accidents. Therefore, regular equipment inspection should include an inspection of the protective surfacing, to ensure it is intact and at the correct depth and further without extraneous materials. Reference is made to ASTM, Clause 13.2.1 and 13.2.2.
* This product was referred to as “Wood Mulch” in previous versions of this KOMPAN handbook. The term “Wood Chips” more accurately describes the product.
** This product was referred to as “Uniform Wood Chips” in previous versions of this KOMPAN handbook. In the playground industry, the product is more commonly known as “Engineered Wood Fibers.”
*** This data is from tests conducted by independent testing laboratories on a 6 inch depth of uncompressed shredded tire samples produced by four manufacturers. The tests reported critical heights, which varied from 10 feet to greater than 12 feet. It is recommended that persons seeking to install shredded tires as a protective surface request test data from the supplier showing the critical height of the material when it was tested in accordance with ASTM F1292.

TABLE 1 — CRITICAL HEIGHTS (in feet) OF TESTED MATERIALS ASTM

MATERIAL	UNCOMPRESSED DEPTH			COMPRESSED DEPTH
	6 inch	9 inch	12 inch	9 inch
Wood Chips*	7	10	11	10
Double Shredded Bark Mulch	6	10	11	7
Engineered Wood Fibers**	6	7	>12	6
Fine Sand	5	5	9	5
Coarse Sand	5	5	6	4
Fine Gravel	6	7	10	6
Medium Gravel	5	5	6	5
Shredded Tires***	10-12	N/A	N/A	N/A

* This product was referred to as Wood Mulch in previous versions of this handbook. The term Wood Chips more accurately describes the product.

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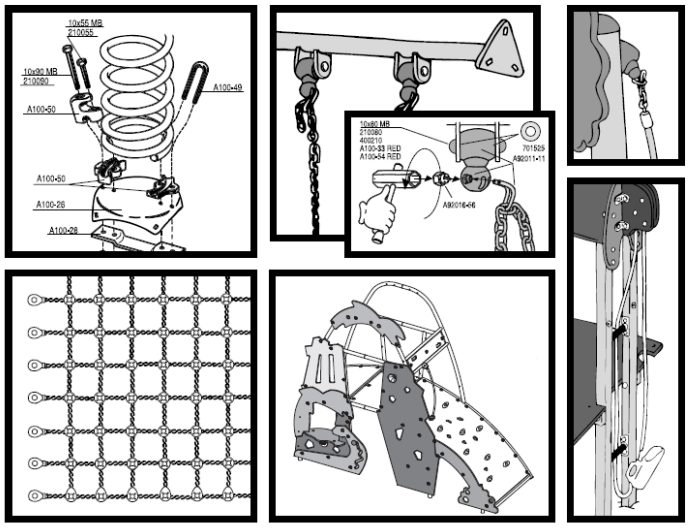
Daily/Weekly Inspection

The daily/weekly inspection is primarily a visual check of all types of equipment. Above all, the inspection should include equipment with moving parts which tend to be worn down. Inspection should be carried out more frequently in heavily used playgrounds.

Check, tighten, repair and – if necessary – replace the following:

• Product parts that have loosened.
• Bolts that have loosened.
• Do-Nut caps that have come off.
• Moving parts. Particular attention should be paid to swing frames (chain links, shackles, swing suspensions). When a chain link or forked bolt is worn through
50%, the part must be replaced.
• Ropes on Sandworks and net strands on climbing nets for wear.
• Parts that have been damaged or ruined due to vandalism.



Monthly/Seasonal/Annual Inspection

Cleaning

It is recommended to clean the equipment in connection with the monthly/seasonal inspection.

• Brush and clean play houses, play towers, bridges, Sandworks, sand towers and other products where there is a tendency for soil, sand and pieces of bark to gather.
• Keep panels free of soil, sand, pieces of bark, etc.
• Keep panels in the area around the protective surfacing free of soil, sand, pieces of bark and other impact attenuating materials.
• Wash all painted KOMPAN panels at least once a year. Equipment installed below trees or other vegetation should be cleaned more frequently. Use only water and mild soap.
• Clean the painted KOMPAN panels of any graffiti. Do not use toxic or strong chemicals. Please contact your local KOMPAN consultant for information on suitable products.

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To check wood posts for deterioration

All wood, when exposed to wetness and weathering, will deteriorate over time. However, protectors and preservatives used in KOMPAN's timber extend the life of the wood considerably over that of unprotected wood. However, as a playground structure is exposed to stresses in a variety of ways, it is important to check on the condition of the wood at regular intervals.

TEST METHOD

Move away surfacing to a depth of 15 cm around post and check wood for soundness by applying the three following tests:

1. Sight test
Observe appearance. Wood should appear intact, signs of deterioration or missing surface should be minimal. (Note – KOMPAN wood is oversized so minor surface damage will not affect the structural integrity of the product).

2. Sound test
Knock with blunt instrument such as hammer. There should be no noticeable difference in the sound when parts of the wood are knocked (unless there are drilled holes or wood is wet in parts).

3. Physical test
Attempt to penetrate wood surface with a sharp instrument such as pocket knife, nail or screwdriver. There should be resistance to penetration of the item in all surfaces.

The wood is sound if all three tests are positive.

Return surfacing to original or recommended position.

Keep area free of vegetation and other elements that can trap moisture in the wood.

To check other wood parts for deterioration

Check all connection points on wood plates for soundness with particular attention to connection points under the floor plates on houses and towers. Any visible signs of deterioration (e.g. small cracks) should be further examined by removal of covering hardware. Structural soundness will be maintained as long as connecting hardware can firmly hold panel in place.

The monthly/annual inspection **must** include a detailed examination of each KOMPAN product. On the following pages the products have been listed according to type, e.g. single-spring products, slides, play houses, etc. The illustrations shown next to the various types of products are only examples. All of the products within the same category of equipment should be examined according to the list, regardless of whether there is an illustration of the product or not. Inspection should be carried out more frequently in heavily used playgrounds.

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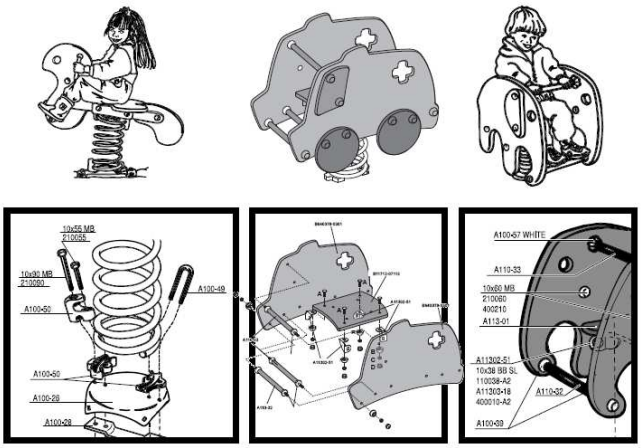
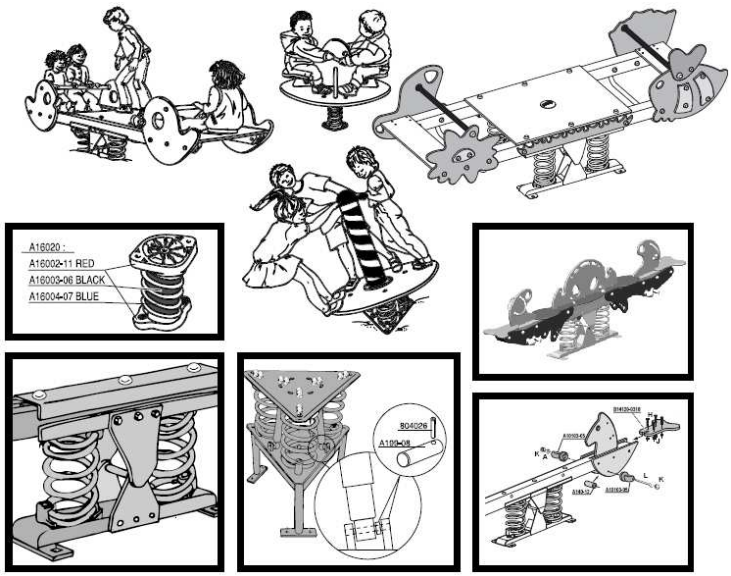
Single-spring products

Check, tighten, repair and – if necessary – replace the following:
• All fasteners on the product. Special attention should be paid when tightening the blue clamps in the spring.
• Handholds and footholds.
• Rust on painted springs and other painted metal fittings.
• Fastening and stability of the foundation.
• Blue bars.
• Parts that have been damaged or ruined due to vandalism.



Multi-spring products

Check, tighten, repair and – if necessary – replace the following:
• Blue clamps in the spring.
• Blue handhold and foothold bars.
• Bolts that hold the platform and wood beams fixed to the spring constructions.
• Rust on the painted springs, metal fittings and galvanised parts.
• Breakage of red spring lock.
• Bolts on moving fittings in spring units.
• Slot screws on seats.
• Foot support for wear or breakage.
• Examination of shock absorbers for rust and functional performance.
• Fasteners on the foundation.
• Parts that have been damaged or ruined due to vandalism.
• Foundation stability.



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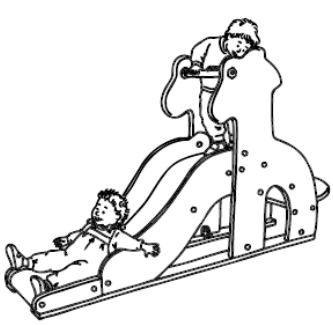
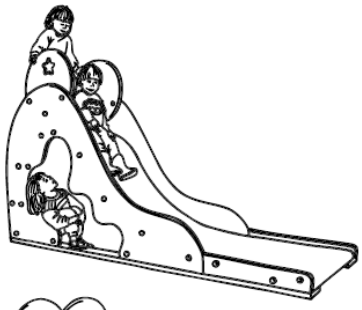
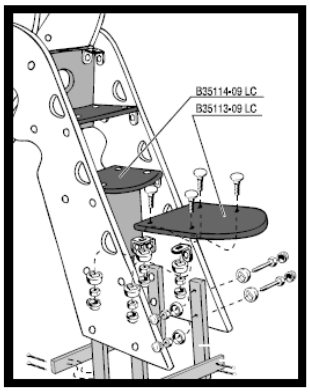
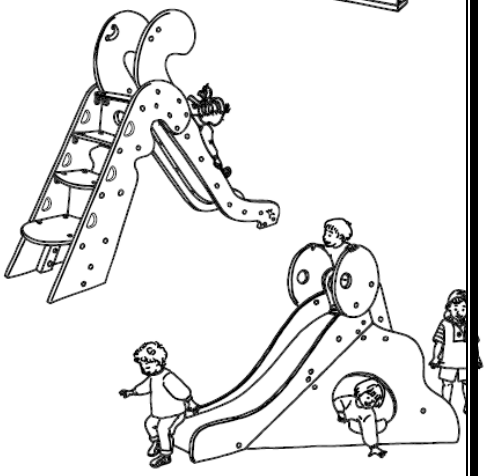
Slides, with or without ladder

Check, tighten, repair and – if necessary – replace the following:
• Ladder, platform and safety panel.
• Burrs or other protruding parts on the surface of the slide, which can injure children.
• Rust on the underside of the slide surface.
• Fasteners on the sides of plastic and steel slides.
• Parts that have been damaged or ruined due to vandalism.
• Foundation stability.



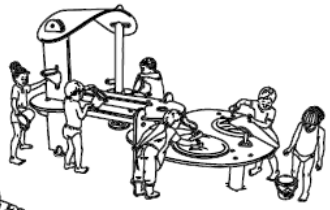


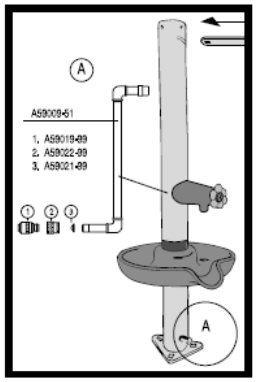


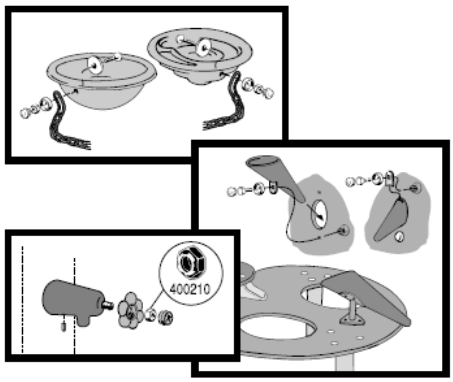


Water play equipment

Check, tighten, repair and – if necessary – replace the following:
• Loose-fitting joints on water supply and water hoses.
• Plastic tubs, moving water pipes, funnels and other moving parts.
• Rust on bolts, painted metal parts and galvanised pillars.
• Parts that have been damaged or ruined due to vandalism.







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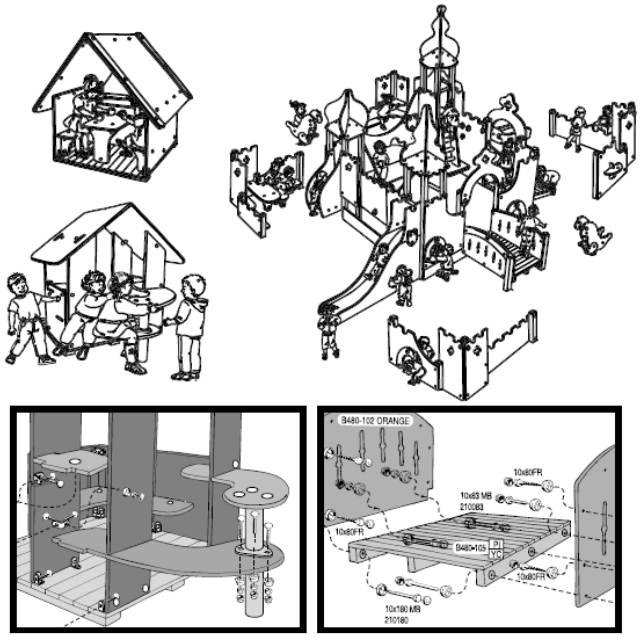
Play houses, play castles, play sculptures and other themed play products

Check, tighten, repair and – if necessary – replace the following:
• Do-Nuts, bolts and fittings.
• Floors, platforms, climbing ladders etc. and roof panels.
• Rust on painted fittings and galvanised pillars.
• Parts that have been damaged or ruined due to vandalism.

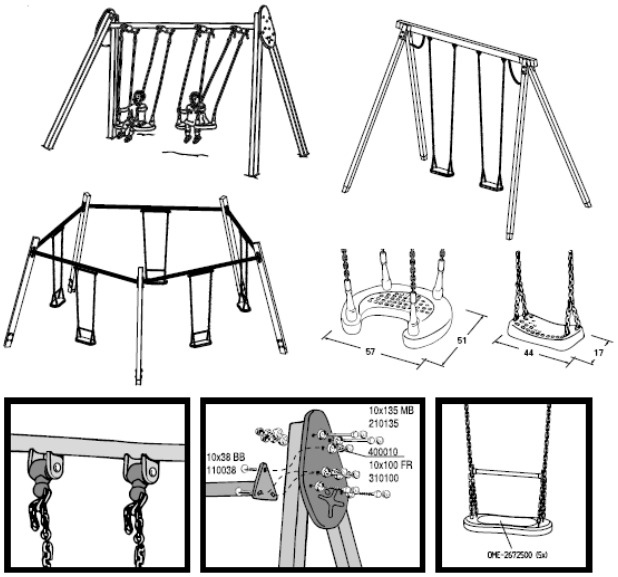


Swing frames and swing seats

Check, tighten, repair and – if necessary – replace the following:

• Fasteners on the swing crossbars to side panels.
• Fasteners on the side panels to posts.
• Rust and wear to swing suspension, shackles and forked bolts.
• Breakage of swing suspensions and swing seats due to vandalism.
• Wear of swing chains and swing ropes.
• Fasteners on swing seats.
• Foundation stability.
• Parts that have been damaged or ruined due to vandalism.

NOTE: When a chain link or forked bolt is worn through 50%, the part must be replaced.



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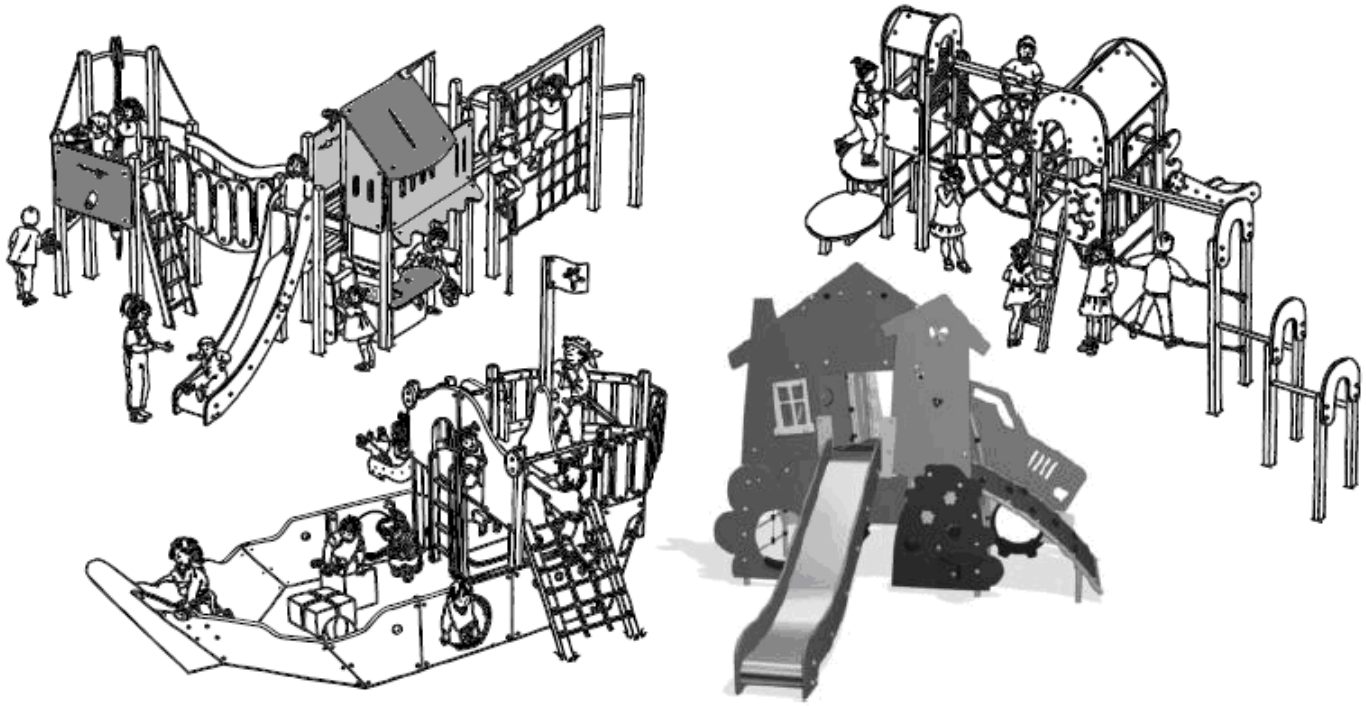
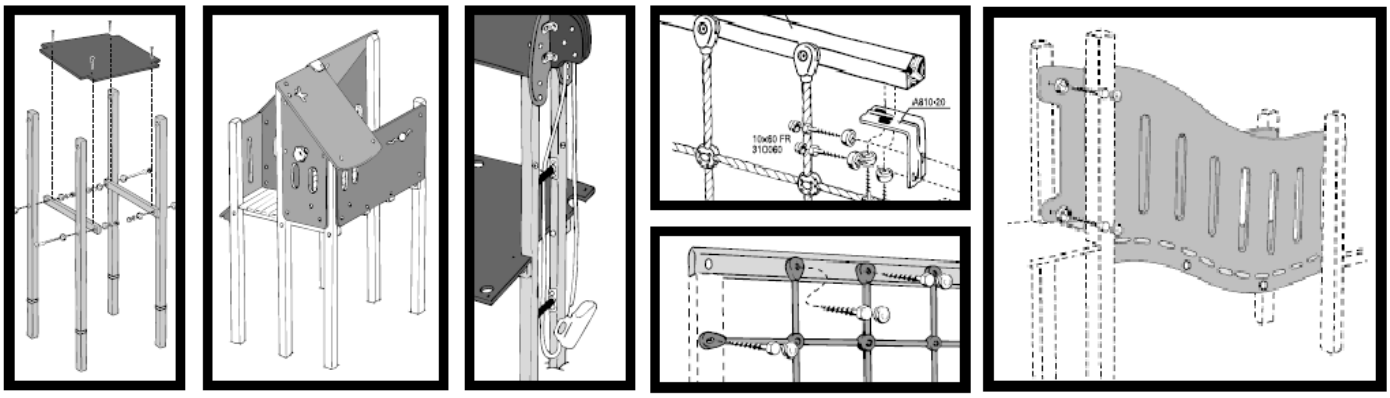
Combinations and play ships



PLAY HOUSES, PLAY TOWERS AND BRIDGES

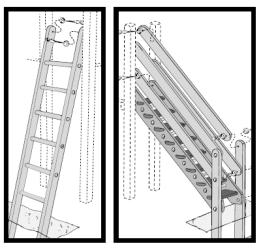
Check, tighten, repair and – if necessary – replace the following parts:
- Do-nuts, bolts and fittings.
- Floors, platforms and roof panels (wear and rot).
- Steps and handrails on bridges.
- Fasteners on crossbars.
- Blue bars (cracks or fractures)
- Moving parts such as binoculars, compass, telegraph, sand wheel and rope for Sandworks.



LADDERS ETC.

Check, tighten, repair and – if necessary – replace the following parts:

- Do-Nuts, bolts and fittings.
- Steps, rungs and handrails.
- Steps, side beams and handrails (splinters and sharp edges).



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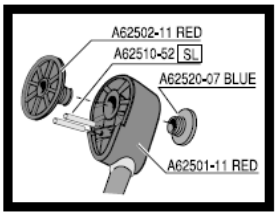
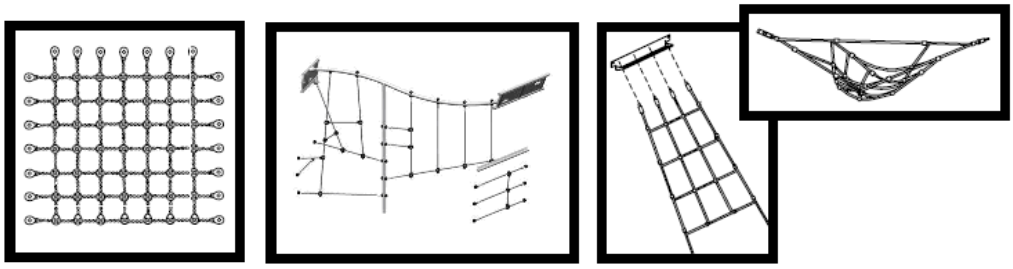
NET CONSTRUCTIONS

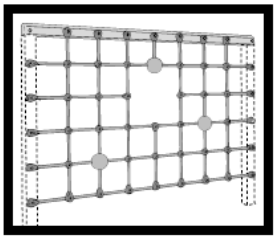
Be particularly careful when inspecting net constructions. They do not need to be replaced when steel wire becomes visible, but when the steel wire is worn through (becomes frayed) replacement should be carried out immediately.

Check, tighten, repair and – if necessary – replace the following parts:

• Wear on net strands. Ensure that net connectors and thimbles are intact and correctly positioned.
• Thimble fasteners on the posts, crossbar, platform and floor.



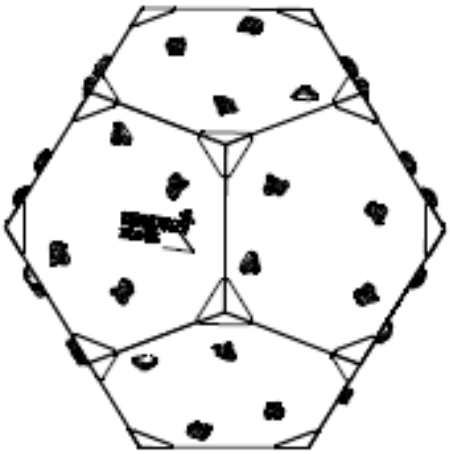


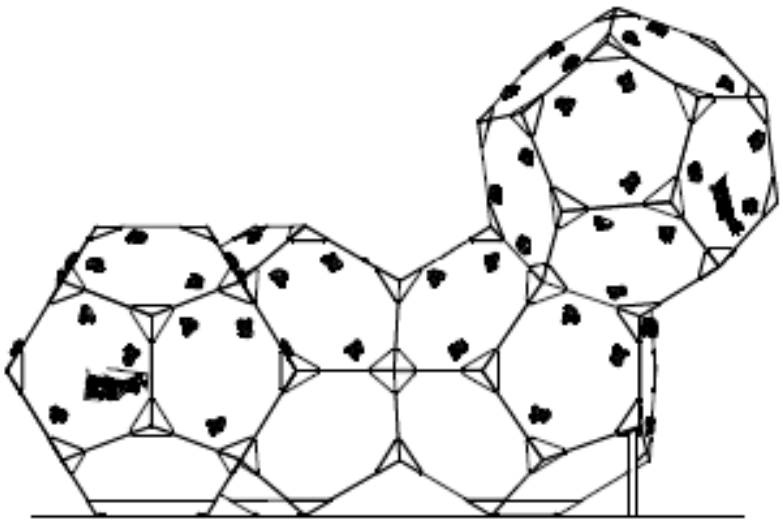


Bloqx

Check, tighten, repair and – if necessary – replace the following:

• Do-Nuts, bolts and fittings.
• Handholds and footholds.
• Fastening and stability of the foundation.
• Parts that have been damaged or ruined due to vandalism.





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Repair paint

We recommend that edges and surfaces be painted when the paint is damaged or worn off. Wear and damage of the painted panels varies a great deal from one playground to another. As a result, a fixed schedule cannot be given for how often painting should be performed.

TOUCH-UP PAINT – Type 1

Touch-up paint is available in spray tins of 0.4 litre and can be ordered in all KOMPAN colours. A comprehensive user manual and safety data sheet will accompany the touch-up paint.

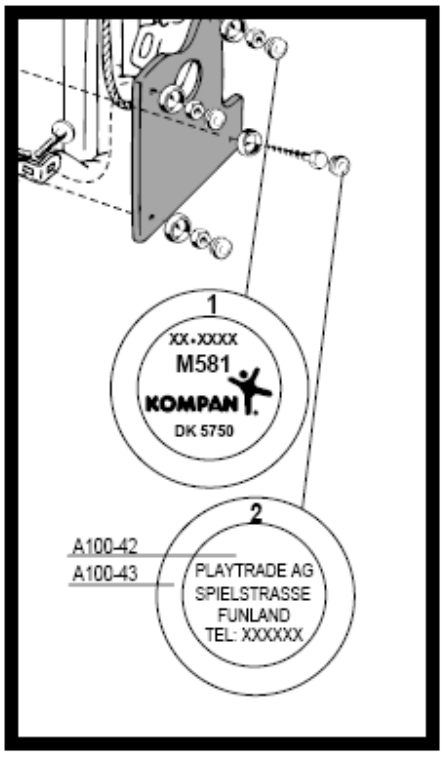
REPAIR PAINT – Type 2

For large repair jobs, such as repainting whole panels, KOMPAN offers a one-component repair paint, which comes in tins of 0.5 litre. It is available in the most commonly used KOMPAN colours: red, yellow, orange, blue, brown and black. A comprehensive user manual and safety data sheet will accompany the repair paint.

Please contact your local KOMPAN consultant for further information and instructions.

Identification Do-Nuts

All KOMPAN products come with two identification Do-Nut labels to be placed inside two Do-Nut caps according to specification. The following information appears from the Do-Nuts:



No. 1

Production week
Production year
Product number

No. 2

KOMPAN address (subsidiary or importer) in the country concerned.

It is of vital importance that this information is given when making a complaint or ordering spare parts.

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Very Important:

Do not use synthetic or mineral oils or petroleum based products on components of plastic or synthetic rubber to refresh their visual appearance. Using oil burn products will degrade the surface and such damages are not covered by our warranty.

DAILY/WEEKLY INSPECTION CHECK-LIST

Photocopy this form for your daily/weekly inspection

The daily/weekly inspection is primarily a visual check of all types of equipment. Above all, the inspection should include equipment with moving parts which tend to be worn down. Inspection should be carried out more frequently in heavily used playgrounds.

Check, tighten, repair and – if necessary – replace the following:

	YES	NO
• Product parts that have loosened		
• Bolts that have loosened		
• Do-Nut caps that have come off.		
• Moving parts. Particular attention should be paid to swing frames (chain links, shackles, swing suspensions). When a chain link or forked bolt is worn through 50%, the part must be replaced		
• Ropes on Sandworks and net strands on climbing nets for wear		
• Parts that have been damaged or ruined due to vandalism.		

Other items

. . . . . .
. . . . . .
. . . . . .
. . . . . .
. . . . . .

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CHECK-LIST

Photocopy this form for your monthly/seasonal inspection

MONTHLY/SEASONAL INSPECTION

	YES	NO
Cleaning		
• Brush and clean play houses, play towers, bridges, Sandworks, sand towers and other products where there is a tendency for soil, sand and pieces of bark to gather		
• Keep panels free of soil, sand, pieces of bark, etc.		
• Keep panels in the area around the protective surfacing free of soil, sand, pieces of bark and other impact attenuating materials . .		
Single-spring products		
Check, tighten, repair and – if necessary – replace the following:		
• All fasteners on the product. Special attention should be paid when tightening the blue clamps in the spring		
• Handholds and footholds.		
• Blue bars		
Multi-spring products		
Check, tighten, repair and – if necessary – replace the following:		
• Blue clamps in the spring		
• Blue handhold and foothold bars.		
• Bolts that hold the platform and wood beams fixed to the spring constructions.		
• Breakage of red spring lock		
• Bolts on moving fittings in spring units		
• Examination of shock absorbers for rust and functional performance		
Slides, with or without ladder		
Check, tighten, repair and – if necessary – replace the following:		
• Ladder, platform and safety panel		
• Burrs or other protruding parts on the surface of the slide, which can injure children		
• Fasteners on the sides of plastic and steel slides		
Water play equipment		
Check, tighten, repair and – if necessary – replace the following:		
• Loose-fitting joints on water supply and water hoses		
• Plastic tubs, moving water pipes, funnels and other moving parts .		

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MONTHLY/SEASONAL INSPECTION CONTINUED

Play houses, play castles, play sculptures and other themed play products

	YES	NO
Check, tighten, repair and – if necessary – replace the following:		
• Do-Nuts, bolts and fittings		
• Floors, platforms, climbing ladders etc. and roof panels		

Swing frames and swing seats

Check, tighten, repair and – if necessary – replace the following:		
• Fasteners on the swing crossbars to side panels		
• Fasteners on the side panels to posts		
• Rust and wear to swing suspension, shackles and forked bolts . . .		
• Wear of swing chains and swing ropes.		
• Fasteners on swing seats		

NOTE: When a chain link or forked bolt is worn through 50%, the part must be replaced.

COMBINATIONS AND PLAY SHIPS

Check, tighten, repair and – if necessary – replace the following parts:

Play Houses, Play Towers and Bridges

• Do-nuts, bolts and fittings.		
• Steps and handrails on bridges		
• Fasteners on crossbars		

Ladders etc.

• Do-Nuts, bolts and fittings		
• Steps, rungs and handrails.		
• Steps, side beams and handrails (splinters and sharp edges)		

Net Constructions

Be particularly careful when inspecting net constructions. They do not need to be replaced when steel wire becomes visible, but when the steel wire is worn through (becomes frayed) replacement should be carried out immediately.

Check, tighten, repair and – if necessary – replace the following parts:		
• Wear on net strands. Ensure that net connectors and thimbles are intact and correctly positioned.		
• Thimble fasteners on the posts, crossbar, platform and floor		

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• Do-Nuts, bolts and fittings.		
• Handholds and footholds.		

CHECK-LIST

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Photocopy this form for your annual inspection

ANNUAL INSPECTION

	YES	NO
Cleaning		
• Wash all painted KOMPAN panels at least once a year. Equipment installed below trees or other vegetation should be cleaned more frequently. Use only water and mild soap.		
• Clean the painted KOMPAN panels of any graffiti. Do not use toxic or strong chemicals. Please contact your local KOMPAN consultant for information on suitable products		
Single-spring products		
Check, tighten, repair and – if necessary – replace the following:		
• Rust on painted springs and other painted metal fittings		
• Fastening and stability of the foundation.		
Multi-spring products		
Check, tighten, repair and – if necessary – replace the following:		
• Rust on the painted springs, metal fittings and galvanised parts. . .		
• Slot screws on seats		
• Foot support for wear or breakage.		
• Fasteners on the foundation		
• Foundation stability		
Slides, with or without ladder		
Check, tighten, repair and – if necessary – replace the following:		
• Rust on the underside of the slide surface		
• Foundation stability		
Water play equipment		
Check, tighten, repair and – if necessary – replace the following:		
• Rust on bolts, painted metal parts and galvanised pillars		
Play houses, play castles, play sculptures and other themed play products		
Check, tighten, repair and – if necessary – replace the following:		
• Rust on painted fittings and galvanised pillars		
Swing frames and swing seats		
Check, tighten, repair and – if necessary – replace the following:		
• Breakage of swing suspensions and swing seats due to vandalism.		
• Foundation stability		
NOTE: When a chain link or forked bolt is worn through 50%, the part must be replaced.		

COMBINATIONS AND PLAYSHIPS

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Check, tighten, repair and – if necessary – replace the following parts:

Play Houses, Play Towers and Bridges

• Floors, platforms and roof panels (wear and rot)		
• Blue bars (cracks or fractures)		
• Moving parts such as binoculars, compass, telegraph, sand wheel and rope for Sandworks. . .		

Ladders, etc.

• Do-Nuts, bolts and fittings		
• Steps, rungs and handrails.		
• Steps, side beams and handrails (splinters and sharp edges)		

Net Constructions

Be particularly careful when inspecting net constructions. They do not need to be replaced when steel wire becomes visible, but when the steel wire is worn through (becomes frayed) replacement should be carried out immediately.

Check, tighten, repair and – if necessary – replace the following parts:

• Wear on net strands. The individual strands can be replaced using a special tool. Ask your local KOMPAN consultant. Ensure that net connectors and thimbles are intact and correctly positioned. .		
• Thimble fasteners on the posts, crossbar, platform and floor		

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• Fastening and stability of the foundation.		

General Guidelines for disposal

Materials that should be collected for recycle:

- Stainless steel
- Aluminum
- PE (polyethylene) – all types

Materials that should be incinerated at high temperature (industrial incineration):

- HPL (High Pressure Laminate)
- Plywood
- PUR (Polyurethane)
- Other plastic types

Materials that should be disposed of in accordance with local regulations:

- Pressure treated wood
- Galvanized steel
- Painted or powdercoated steel

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Site Location: _____ Structure: _____

Maintenance Record

Initials	Date	Item Serviced	Maintenance Performed	Comments

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